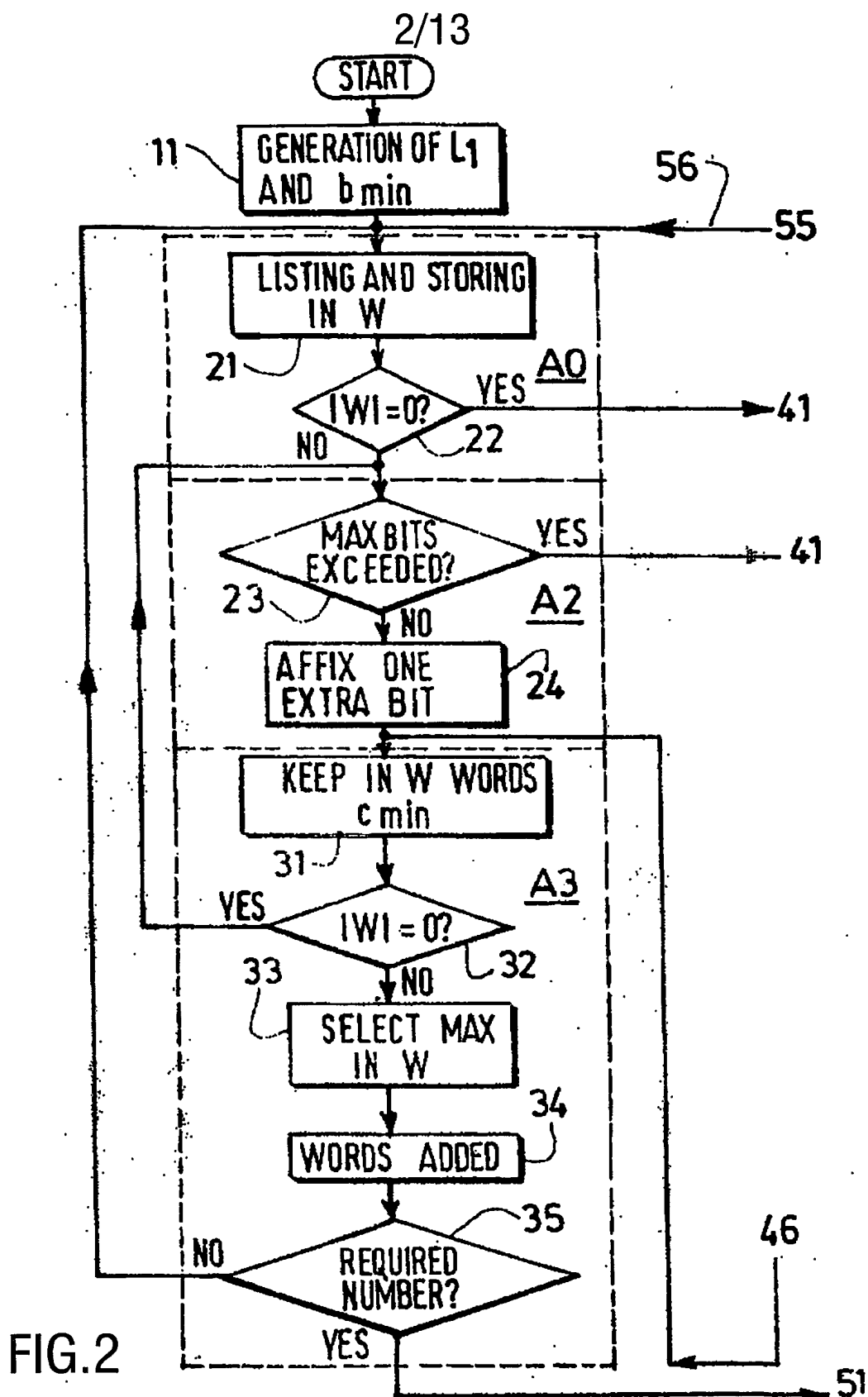


FIG.1



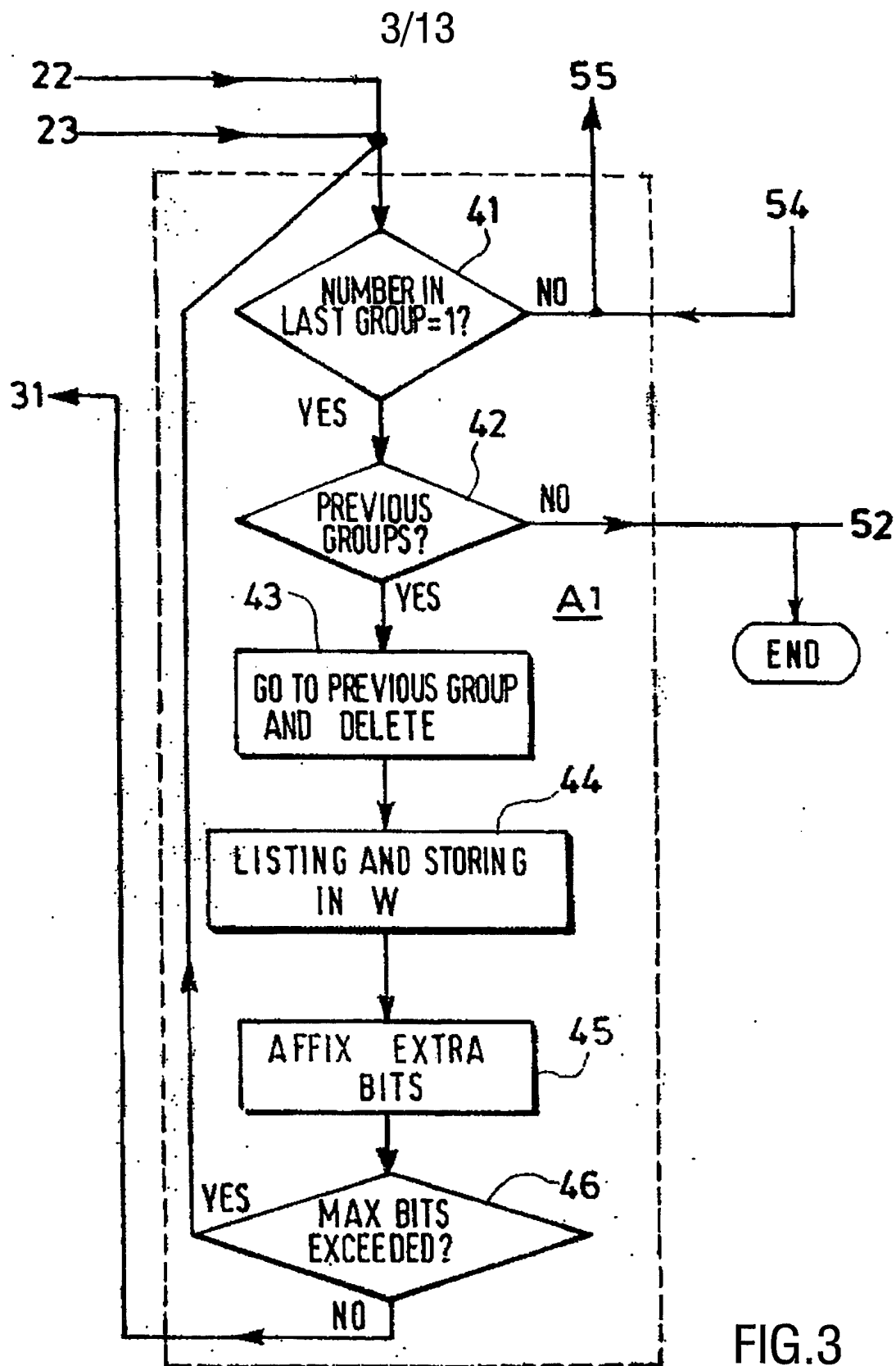


FIG.3

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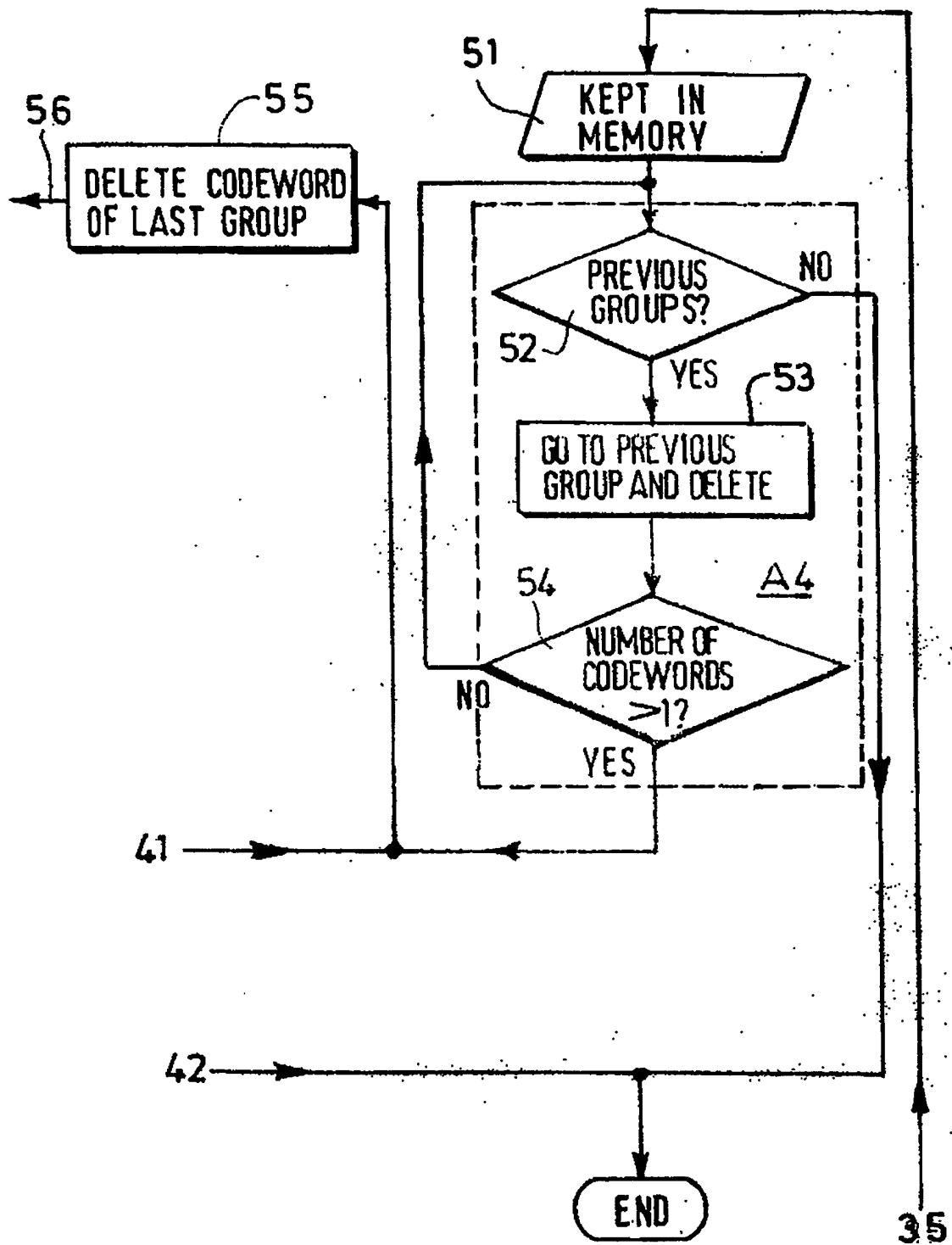


FIG. 4

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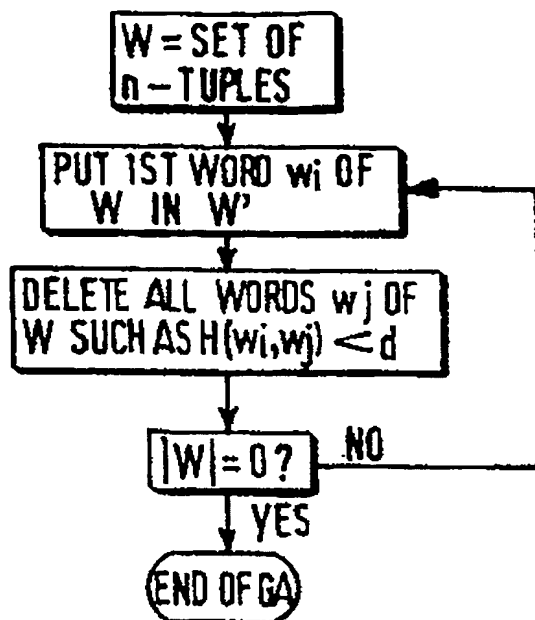


FIG. 5

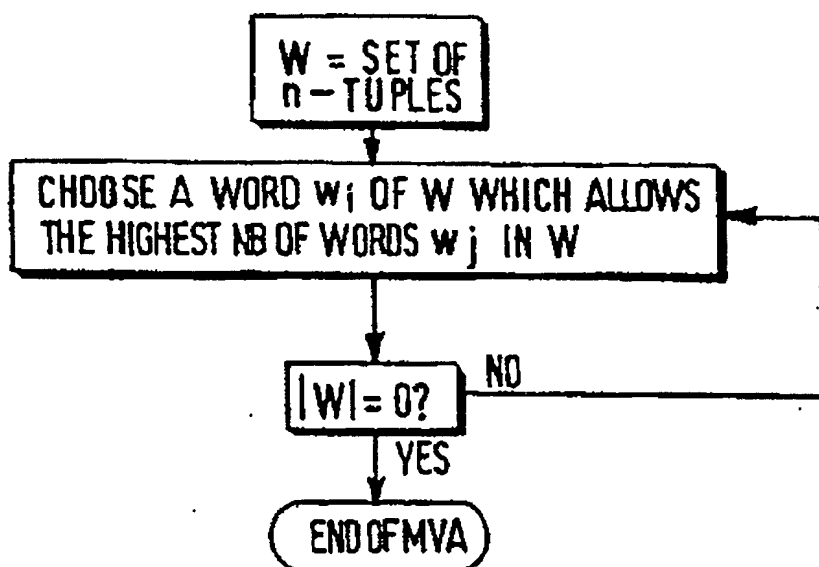


FIG. 7

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dfreq	AL	TIME	CODE STRUCTURE
3	6,4946	4s	(1@ 4,-;1@ 5,-;3@ 6,3;8@ 7,3;4@ 8,3;3@ 9,3;1@ 10,-;2@ 11,4;1@ 12,-;1@ 13,-;1@ 14,-;2,1)
5	8,5051	15s	(1@ 6,-;2@ 7,5;3@ 8,5;4@ 9,5;4@ 10,5;5@ 11,5;5@ 12,5;2@ 13,5;3,2)
7	10,79	2min	(1@ 8,-;2@ 9,7;2@ 10,7;3@ 11,7;4@ 12,7;4@ 13,7;6@ 14,7;4@ 15,7;4,3)

FIG.6

d free	A L	TIME	CODE STRUCTURE
3	6,3038	50 s	(1@ 4,-; 2@ 5,4; 4@ 6,3; 4@ 7,3; 6@ 8,3; 5@ 9,3; 2 @ 10,4; 2@ 11,3; 2,1)
5	8,4752	16 min	(1@ 6,-; 1@ 7,-; 4@ 8,5; 5@ 9,5; 5@ 10,5; 5@ 11,5; 5@ 12,5; 3,2)
7	10,7385	14 h	(1@ 7,-; 1@ 8,-; 1@ 9,-; 1 @ 10,-; 3@ 11,7; 4@ 12,7; 5@ 13,7; 5 @ 14,7; 5@ 15,7; 4,3)

FIG.8

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SOURCE SYMBOL	PROBABILITY
<i>e</i>	0,1270
<i>t</i>	0,0906
<i>a</i>	0,0817
<i>o</i>	0,0751
<i>i</i>	0,0697
<i>n</i>	0,0674
<i>s</i>	0,0633
<i>h</i>	0,0609
<i>r</i>	0,0599
<i>d</i>	0,0425
<i>l</i>	0,0403
<i>c</i>	0,0278
<i>u</i>	0,0276
<i>m</i>	0,0241
<i>w</i>	0,0236
<i>f</i>	0,0223
<i>g</i>	0,0202
<i>y</i>	0,0197
<i>p</i>	0,0193
<i>b</i>	0,0149
<i>v</i>	0,0098
<i>k</i>	0,0077
<i>j</i>	0,0015
<i>x</i>	0,0015
<i>q</i>	0,0010
<i>z</i>	0,0007

FIG.9

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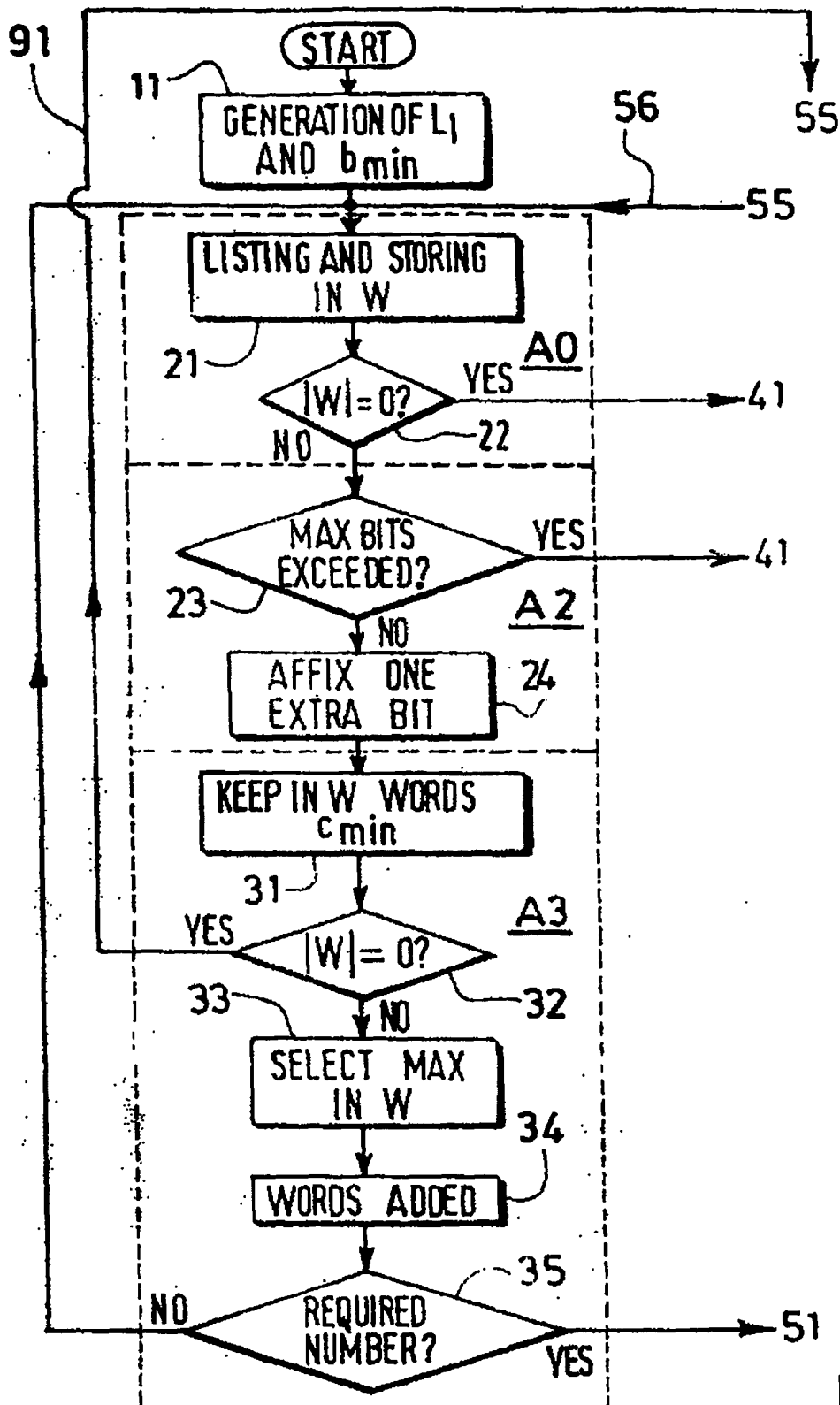


FIG.10

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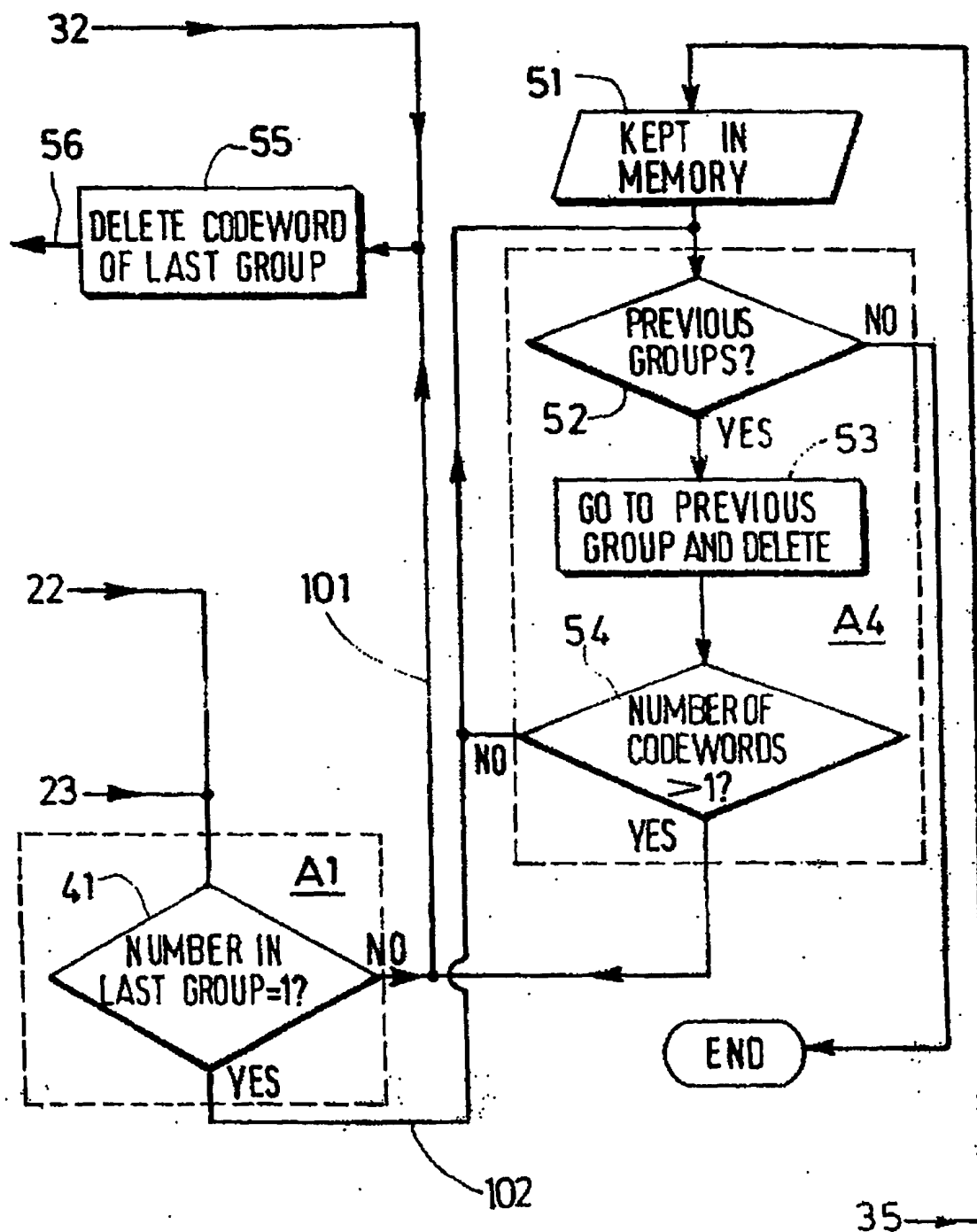


FIG. 11

d free	A L	TIME	CODE STRUCTURE
3	6,3494	42s	(1@ 4,-;1@ 5,-;5@ 6,3;6@ 7,3;4@ 8,3;4@ 9,3;1@ 10,-;1@ 12,-;2@ 13,-;1@ 14,-;2,1)
5	8,5061	3min	(1@ 6,-;2@ 7,5;3@ 8,5;4@ 9,5;4@ 10,5;5@ 11,5;5@ 12,5;2@ 13,5;3,2)
7	10,79	13min	(1@ 8,-;2@ 9,7;2@ 10,7;3@ 11,7;4@ 12,7;4@ 13,7;6@ 14,7;4@ 15,7;4,3)

FIG.12

d free	A L	TIME	CODE STRUCTURE
3	6,3530	17s	(1@ 4,-;1@ 5,-;5@ 6,3;6@ 7,3;4@ 8,3;3@ 9,3;2@ 10,4;2@ 11,3;1@ 12,-;1@ 13,-;2,1)
5	8,5061	45s	(1@ 6,-;2@ 7,5;3@ 8,5;4@ 9,5;4@ 10,5;5@ 11,5;5@ 12,5;2@ 13,5;3,2)
7	10,79	3min	(1@ 8,-;2@ 9,7;2@ 10,7;3@ 11,7;4@ 12,7;4@ 13,7;6@ 14,7;4@ 15,7;4,3)

FIG.13

d tree	LS->	4	5	6	7	8	9	10	11	12	13	14	15
3	AL	n°	n°	6,6356	6,3650	6,3550	6,3530	6,3530	6,3530	6,3530	6,3530	x	x
(L ₁ =4, L _{max} =13)	Time	code	code	0,017s	0,08s	0,5s	3s	6,7s	11,5s	17s	17s	x	x
5	AL	x	x	n°	8,5061	8,5061	8,5061	8,5061	8,5061	8,5061	8,5061	x	x
(L ₁ =6, L _{max} =13)	Time	x	x	code	0,01s	0,03s	0,13s	0,76s	6,8s	45s	45s	x	x
7	AL	x	x	x	x	10,79	10,79	10,79	10,79	10,79	10,79	10,79	10,79
(L ₁ =8, L _{max} =15)	Time	x	x	x	x	0,02s	0,07s	0,17s	0,6s	2s	12,8s	175s	175s

FIG.15

L	LS->	5	6	7	8	9	10	11
9	AL	x	x	x	x	9,3728	9,3728	9,3728
	Time	x	x	x	x	1,7s	100s	3h
8	AL	x	x	x	8,8570	8,7575	8,7537	8,7537
	Time	x	x	x	0,7s	21s	18min	32,5h
7	AL	x	x	n°	8,5643	8,3413	8,3055	8,2937
	Time	x	x	code	5s	3min	2h	134h
6	AL	x	n°	n°	8,4905	8,1186	8,0737	not
	Time	x	code	code	13s	8min	4h	simulated
5	AL	n°	n°	n°	8,3133	8,0346	7,9586	7,9392
	Time	code	code	code	8s	8min	5h	1Week

FIG.16